

Bid Bulletin No. 1

**“Supply, Delivery and Installation of Various Testing Equipment for Bureau of Philippine Standards – Product Testing Division”  
20-036**

December 29, 2020

This Bid Bulletin No. 1 is hereby issued to modify or amend the Bidding Documents.

**A. Bid Data Sheet**

5.3	<p>For this purpose, contracts similar to the Project shall be:</p> <p>a. <b>Supply, Delivery and Installation of Testing Equipment;</b></p> <p>b. completed within <b>three (3) years</b> prior to the deadline for the submission and receipt of bids.</p> <p>The prospective bidder should have completed at least two (2) similar contracts and the aggregate contract amounts should be equivalent to at least the percentage of the ABC as required above; and</p> <p>The largest of these similar contracts must be equivalent to at least half of the percentage of the ABC as required above.</p>
-----	--

**B. Section VII. Technical Specifications**

**1) Lot No. 3 - Vibration Test System**

1-LOT SUPPLY, DELIVERY AND INSTALLATION OF VIBRATION TEST SYSTEM		
COMPONENTS	SPECIFICATIONS	COMPLIANCE
<i>SYSTEM</i>	1. Frequency Range: 0 to 3000 Hz (or larger)	
	2. Max. load (kg): 200 (or higher)	
	3. Cooling system: air-cooled (blower type)	
FORCE	4. Sine (kN): 8 to 10	
	5. Random (kN rms): 8 to 10	
	6. Shock (kN): 16 to 20	
MAX. ACCELERATION	7. Sine (m/s <sup>2</sup> ): 1250 (or higher)	
	8. Random (m/s <sup>2</sup> rms): 875 (or higher)	
	9. Shock (m/s <sup>2</sup> ): 2500 (or higher)	
MAX. VELOCITY	10. Sine (m/s <sup>2</sup> ): 2.2 (or higher)	
	11. Shock (m/s <sup>2</sup> ): 2.2 (or higher)	

MAX. DISPLACEMENT	12. Sine (mm P-P): 51 (or higher)	
	13. Max. travel (mm P-P): 60 (or higher)	
<b>VIBRATION GENERATOR</b>	14. Can be rolled from vertical to horizontal position to drive the horizontal table	
	15. Armature support guide: parallel slope guide system for high durability	
	16. Center positioner of armature: Automatic by eddy current displacement sensor (non-photoelectric sensor)	
<b>VIBRATION TABLE</b>		
HORIZONTAL TABLE	17. Material: aluminum	
	18. Dimension (mm): 800 x 800 (at least)	
	19. Max. frequency (Hz): 2000 (or higher)	
HEAD EXPANDER	20. Material: aluminum	
	21. Dimension (mm): 800 x 800 (at least)	
	22. Shape: square-block type	
	23. Max. frequency (Hz): 350	
<b>SYSTEM CONTROLLER</b>	24. Computer controlled	
	25. Control software Windows 10 compatible	
	26. Employs high-resolution 24-bit A/D and D/A converters to achieve high-precision, repeatable control	
	27. Outputs test definitions and results in CSV format for use with MS Excel spreadsheet	
<b>POWER SUPPLY</b>	28. 220 – 240 VAC, 3-Phase, 60 Hz	
<b>ACCESSORY</b>	29. System compatible air-compressor	

## 2) Lot 4 - Walk-in Environment Chamber

1-LOT SUPPLY, DELIVERY AND INSTALLATION OF WALK-IN ENVIRONMENT CHAMBER		
COMPONENTS	SPECIFICATIONS	COMPLIANCE
<b>SYSTEM</b>	1. Balance Temperature and Humidity Control System (BTHC system) / Vapor Pressure Divide Control System	
<b>MAIN UNIT (STRUCTURE)</b>	2. Interior floor area: 12.3m <sup>2</sup> (at least)	
	3. Chamber exterior length (including machinery unit) shall not be greater than 5700mm to meet the clearance requirements on BPS installation area.	
	4. Swing doors shall be installed on the longer side of the chamber and when open shall not extend more than 1000mm perpendicularly from the chamber wall.	
	5. Exterior material: color coated metal sheet	
	6. Interior material: 18-8 Cr-Ni stainless steel plate (SUS 304)	

	7. Floor load resistance: equal load distribution: 6kPa (600 kgf/m <sup>2</sup> ) with reinforced floor (at least 2mm) to accommodate heavy loads	
	8. Floor: with rubber-type protective flooring	
	9. Door: double swing door (at least W1400 x H1800 mm)	
	10. Viewing window: On the door with a transparent metal layer as heater to prevent fogging	
	11. Chamber insulation: hard urethane foam	
<b>PERFORMANCE</b>	12. Temperature range: -10 to +80°C	
	13. Humidity range: 20 to 95% RH	
	14. Temp./Humid. Fluctuation (as per <b>IEC 60068-3-6</b> ): ±0.5°C / ±4% RH	
	15. Temp. & Humid. Gradient: 2.5°C/8.0%RH	
	16. Temp. variation in space (as per <b>IEC 60068-3-6</b> ): 2.5°C	
	17. Temp. rate of change (pull-down) (as per <b>IEC 60068-3-6</b> ): 0.4°C/min or higher	
	18. Temp. rate of change (heat-up) (as per <b>IEC 60068-3-6</b> ): 1°C/min or higher	
	19. Operating ambient conditions: up to 45°C / up to 75% RH	
<b>CONTROL/INSTRUMENTATION</b>	20. Control panel: 10-inch (at least) TFT display	
	21. Capable of program settings	
	22. Capable of trend-graph display	
	23. Equipped with USB port for data transfer and saving test profiles	
	24. With 6-channel paperless recorder (temperature & humidity measurement) capable of storing data internally and downloadable to a flash drive	
	25. Remote monitoring capability thru Ethernet (LAN) port to connect to and monitor the chamber operations from a PC	
<b>REFRIGERATION SYSTEM</b>	26. DC Inverter, single-stage refrigeration system	
	27. With electronic expansion valve	
	28. Air-cooled condenser	
	29. Refrigerant: R449A	
	30. With automatic defrost system when operating at frosting range	
	31. Utilizes scale-resistant steam humidification system	
	32. Water purifier: Ion exchange water purifier	
<b>FITTINGS</b>	33. With all-weather LED interior lighting	
	34. With 2 cable ports (100 mm dia.) installed on the front wall	
	35. With emergency button internally installed for operator safety	

	36. With external emergency stop switch	
	37. With insertion ramp for ingress/egress of heavy samples	
	38. Status indicator light	
<b>POWER SUPPLY</b>	39. 220-240 VAC, 3-phase, 60Hz	

For the guidance and information of all concerned.

*SGD.*  
**MARY JEAN T. PACHECO**  
Assistant Secretary  
Chairperson, DTI Bids and Awards Committee